



## SEQUENCE LISTING

<110> YAROVINSKY, TIMUR

<120> TOPOISOMERASE ACTIVATED OLIGONUCLEOTIDE ADAPTORS AND  
USES THEREFOR

<130> UIA-031.01

<140> 09/871,607

<141> 2001-05-31

<150> 60/208,662

<151> 2000-05-31

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 1

taatacgact cactataggg acccttggtg cacca

35

<210> 2

<211> 11

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 2

agggtcccta t

11

<210> 3

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 3

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21

09871607.030601

<210> 4  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 oligonucleotide

<400> 4  
 gaactaacat taatacacat cac

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<210> 5  
 <211> 20  
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 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 5  
 gtaccacctc accagtgctt

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<210> 6  
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 <212> DNA  
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<223> Description of Artificial Sequence: Primer

<400> 6  
 aaatgatggc cagagacca

19

<210> 7  
 <211> 945  
 <212> DNA  
 <213> Vaccinia virus

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 atgcgtgcac ttttttataa agatggtaaa ctctttaccg ataataatTT tttaaatcct 60  
 gtatcagacg ataattccagc gtatgaggtt ttgcaacatg ttaaaattcc tactcattta 120  
 acagatgtag tagtatatga acaaacgtgg gaggaggcgt taactagatt aatttttgtg 180  
 ggaagtgtatt caaaaggacg tagacaatac ttttacggaa aaatgcatgt acagaatcgc 240  
 aacgctaaaa gagatcgtat tttgttaga gtatataacg ttatgaaacg aattaattgt 300  
 tttataaaca aaaatataaa gaaatcgtcc acagattcca attatcagtt ggcgggtttt 360  
 atgttaatgg aaactatgtt ttttattaga tttggtaaaa tgaaatatct taaggagaat 420  
 gaaacagtag gggtattaac actaaaaaat aaacacatag aaataagtcc cgatgaaata 480  
 gttatcaagt ttgtaggaaa ggacaaaagt tcacatgaat ttgttgttca taagtctaatt 540  
 agactatata agccgctatt gaaactgacg gatgattcta gtcccgaaga atttctgttc 600  
 acaaaactaa gtgaacgaaa ggtatatgaa tgtatcaaac agtttggat tagaatcaag 660  
 gatctccgaa cgtatggagt caattatacg tttttatata atttttggac aaatgtaaaag 720  
 tccatatctc ctcttccatc accaaaaaag ttaatagcgt taactatcaa acaaaactgct 780  
 gaagtggtag gtcatactcc atcaatttca aaaagagctt atatggcaac gactatttta 840  
 gaaatggtaa aggataaaaa ttttttagat gtagtatcta aaactacgtt cgatgaattc 900

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ctatctatag tcgtagatca cgttaaata tctacggatg gatga

945

&lt;210&gt; 8

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Vaccinia virus

&lt;400&gt; 8

Met Arg Ala Leu Phe Tyr Lys Asp Gly Lys Leu Phe Thr Asp Asn Asn  
 1 5 10 15

Phe Leu Asn Pro Val Ser Asp Asp Asn Pro Ala Tyr Glu Val Leu Gln  
 20 25 30

His Val Lys Ile Pro Thr His Leu Thr Asp Val Val Val Tyr Glu Gln  
 35 40 45

Thr Trp Glu Glu Ala Leu Thr Arg Leu Ile Phe Val Gly Ser Asp Ser  
 50 55 60

Lys Gly Arg Arg Gln Tyr Phe Tyr Gly Lys Met His Val Gln Asn Arg  
 65 70 75 80

Asn Ala Lys Arg Asp Arg Ile Phe Val Arg Val Tyr Asn Val Met Lys  
 85 90 95

Arg Ile Asn Cys Phe Ile Asn Lys Asn Ile Lys Lys Ser Ser Thr Asp  
 100 105 110

Ser Asn Tyr Gln Leu Ala Val Phe Met Leu Met Glu Thr Met Phe Phe  
 115 120 125

Ile Arg Phe Gly Lys Met Lys Tyr Leu Lys Glu Asn Glu Thr Val Gly  
 130 135 140

Leu Leu Thr Leu Lys Asn Lys His Ile Glu Ile Ser Pro Asp Glu Ile  
 145 150 155 160

Val Ile Lys Phe Val Gly Lys Asp Lys Val Ser His Glu Phe Val Val  
 165 170 175

His Lys Ser Asn Arg Leu Tyr Lys Pro Leu Leu Lys Leu Thr Asp Asp  
 180 185 190

Ser Ser Pro Glu Glu Phe Leu Phe Asn Lys Leu Ser Glu Arg Lys Val  
 195 200 205

Tyr Glu Cys Ile Lys Gln Phe Gly Ile Arg Ile Lys Asp Leu Arg Thr  
 210 215 220

Tyr Gly Val Asn Tyr Thr Phe Leu Tyr Asn Phe Trp Thr Asn Val Lys  
 225 230 235 240

Ser Ile Ser Pro Leu Pro Ser Pro Lys Lys Leu Ile Ala Leu Thr Ile  
 245 250 255

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Lys Gln Thr Ala Glu Val Val Gly His Thr Pro Ser Ile Ser Lys Arg  
 260 265 270

Ala Tyr Met Ala Thr Thr Ile Leu Glu Met Val Lys Asp Lys Asn Phe  
 275 280 285

Leu Asp Val Val Ser Lys Thr Thr Phe Asp Glu Phe Leu Ser Ile Val  
 290 295 300

Val Asp His Val Lys Ser Ser Thr Asp Gly  
 305 310

<210> 9

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: T7 phage  
 promoter

<400> 9

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<210> 10

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: T3 phage  
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<400> 10

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24

<210> 11

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: SP6 phage  
 promoter

<400> 11

atttaggtga cactatagaa tac

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<210> 12

<211> 46

<212> DNA

<213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 12

taatacgact cactataggg acccttggtg caccaagggt ccctat

46

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